

# Specifications — System 5<sub>cr</sub> Plus Switcher

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## Video

Gain .....	Unity
Bandwidth .....	250 MHz (-3dB)
Frequency response .....	< ± 0.1dB @ 30 MHz
Differential phase error .....	0.01°, 0 to 10 MHz
Differential gain error .....	0.01%%, 0 to 10 MHz
Crosstalk .....	-50dB @ 5 MHz

## Video input

Number/signal type .....	2 RGBHV/RGBS/RGsB computer video 1 RGBHV/RGBS/RGsB computer video or S-video or composite video 2 S-video or composite video
Connectors .....	1 15-pin HD female (RGB computer video) 2 x 5 BNC female (RGB computer video; RGB/S-video/composite video) 2 x 2 BNC female (S-video or composite video)
Minimum/maximum levels .....	Analog ..... 0.3V to 2V p-p with no offset
Impedance .....	75 ohms
Horizontal frequency .....	15 kHz to 150 kHz
Vertical frequency .....	30 Hz to 150 Hz
Return loss .....	-45dB @ 5 MHz
Maximum DC offset .....	1.5V

## Video output

Number/signal type .....	1 RGBHV/RGBS/RGsB, or 1 S-video, or 1 composite video
Connectors .....	1 x 5 BNC female (RGB computer video) 1 x 2 BNC female (S-video) 1 x 1 BNC female (composite video)
Minimum/maximum levels .....	0.3V to 2.0V p-p
Impedance .....	75 ohms
Return loss .....	-38dB @ 5 MHz
DC offset .....	±5mV maximum with input at 0 offset
Switching type .....	Triple-Action

## Sync

Input type .....	RGBHV, RGBS, RGSB
Output type .....	RGBHV, RGBS, RGSB
Standards .....	TTL (RGB), NTSC and PAL (S-video and composite video)
Input level .....	0.5V to 5V p-p
Output level .....	0.5V to 5V p-p
Input impedance .....	75 ohms
Output impedance .....	75 ohms
Max input voltage .....	5V p-p
Max. propagation delay .....	20 nS
Polarity .....	Positive or negative (follows input)

## Audio

Gain .....	Unbalanced/balanced -78dB to +40dB
Frequency response .....	20 Hz to 20 kHz, ±0.05dB
THD + Noise .....	<0.1% @ 1 kHz at rated maximum output drive
S/N .....	>95dB, at rated maximum output drive
Crosstalk .....	<-80dB @ 1 kHz, fully loaded
Stereo channel separation .....	>90dB @ 1 kHz
CMRR .....	>75dB @ 20 Hz to 20 kHz

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## Audio input

Number/signal type .....	5 stereo, balanced/unbalanced
Connectors .....	1 3.5 mm mini stereo jack (PC 1) 4 3.5 mm captive screw connectors, 5 pole
Impedance .....	>50 kohms unbalanced, 25 kohms balanced
Maximum level .....	+20dBu, (balanced or unbalanced) at stated %THD+N
Input gain adjustment .....	-10dB to +6.5dB, adjustable per input

## Audio output — line out

Number/signal type .....	1 stereo, balanced/unbalanced
Connectors .....	1 3.5 mm captive screw connector, 5 pole
Impedance .....	50 ohms unbalanced, 100 ohms balanced
Maximum level (Hi-Z) .....	>+21dBu, balanced or unbalanced at stated %THD+N
Maximum level (600 ohm) .....	>+15dBm, balanced or unbalanced at stated %THD+N

## Audio output — power amp

Number/signal type .....	1 stereo, unbalanced
Connectors .....	2 spring-loaded captive terminals, L/R, +/-
Protection .....	Thermal, short circuit, open circuit, overload
Maximum level (full power out) ..	At less than 0.5% THD from 20-20kHz: 24 watts; 12 watts per channel @ 4 ohm load 12 watts; 6 watts per channel @ 8 ohm load

**NOTE** 0dBu = 0.775 volts (RMS).

## Control/remote — switcher

Serial control port .....	RS-232, 9-pin female D connector
Baud rate and protocol .....	9600, 8-bit, 1 stop bit, no parity
Serial control pin configurations	2 = TX, 3 = RX, 5 = GND
Extron remote key pad control ..	2 5 mm, 5-pole captive screw connectors (Aux ports)
IR controller module .....	30 kHz to 60 kHz input frequency compatibility
Program control .....	Extron's control program for Windows Extron's Simple Instruction Set™ – SIS™

## Control — room relay

Number/type .....	1 momentary or latching
Connectors .....	1 3.5 mm captive screw connector, 5 pole
Contact rating .....	24V, 1 A

## Control — projector

Projector control port (IR) .....	1 3.5 mm captive screw connector, 5 pole
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## General

Power .....	100VAC to 240VAC, 50/60 Hz, 70 watts, internal, auto-switchable
Temperature/humidity .....	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount .....	Yes, with included brackets
Enclosure type .....	Metal
Enclosure dimensions .....	1.75" H x 17.5" W x 9.4" D (1U high, full rack width) 4.4 cm H x 44.4 cm W x 23.9 cm D (Depth excludes connectors.)
Product weight .....	6.1 lbs (2.7 kg)
Shipping weight .....	11 lbs (5.0 kg)

# Specifications — System 5cr Plus (continued)

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Vibration .....	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings .....	UL, CUL
Certifications .....	CE
MTBF .....	30,000 hours
Warranty .....	3 years parts and labor

**NOTE** *Specifications are subject to change without notice.*

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